

SeagrassNet is a global seagrass monitoring program, active throughout the North Pacific. SeagrassNet scientifically monitors seagrass beds so that changes in their health and structure can be determined with accuracy over time. All data collected are sent to a website/database for display and analysis: www.SeagrassNet.org.

Besides finding new information on the status and trends of seagrass health, SeagrassNet is committed to the long-term protection of seagrasses. SeagrassNet monitoring has shown that seagrass near populated and rapidly developing areas does poorly, while seagrass in more remote, pristine and protected areas is still largely healthy.

Threats to seagrass

- o human activities on land
- o aquaculture
- o anything that decreases water clarity
- o fertilizers/pesticides entering the ocean
- o nutrients entering the ocean
- o sediments entering the ocean
- o dredging and coastal development
- o some boating and fishing activities
- o docks and piers

Protecting seagras

- reduce runoff & wastewater discharge
- o practice sustainable aquaculture
- o avoid overboard discharge
- o minimize dredging and filling
- o use careful boating practices
- o build high narrow docks
- clean up coastal areas
- support Marine Protected Areas

Dr. Frederick T. Short Director, SeagrassNet University of New Hampshire 603-862-5134 phone fred.short@unh.edu



NEW HAMPSHIRE CHARITABLE FOUNDATION AND TOM HAAS





February 2010

North Pacific

Seagrasses

- Underwater flowering plants
- Valuable coastal ecosystem
- Form vast meadows to small patches
- 15 species in the North Pacific
- Nurseries, shelter and food for fish
- Sea turtles and Brant eat seagrass
- Recognize and protect them

North Pacific Seagrass



Seagrass functions and values

Seagrass contributes to a healthy coastal marine environment. Seagrass provides habitat for commercially and recreationally important fish and

shellfish species. It is a nursery for young marine creatures. Seagrass filters the water of sediments and pollution. The seagrass root mat adds stability to the coastal zone,



and seagrass leaves lessen the impact of wave energy on the shoreline. As dead seagrass breaks down, it becomes part of the coastal food chain, supporting snails, shrimp, beche de mer, and fish. Throughout the Indo-Pacific, people harvest sea food from seagrass meadows as a major source of protein.

Turtles and Brant



Brant and sea turtles eat seagrass, as do some fish and In vast seagrass birds. meadows. divers and snorkelers can observe "feeding trails" of dugongs, where these sea mammals

have plowed along the bottom, eating seagrass as they go. A healthy seagrass resource is essential to dugongs and turtles.

Reef - seagrass - mangrove connection

Seagrasses, mangroves, and coral reefs form a threepart marine coastal ecosystem. Each part contributes to a healthy ocean. Mangroves filter the

water coming off the land and create a stable shoreline. Seagrass further filters runoff and provides nursery areas for many of the fish that live in coral reefs



as adults. Seagrass, as it dies and decomposes, provides a link in the food chain essential to coral reef animals. The seagrass-coral reef environment is a productive area of high biodiversity and beauty. Together, healthy seagrasses, mangroves, and coral reefs create a coastal resource for fisheries and tourism.